What Is Claimed Is:

Sub B1

1. A vehicle-mounted input unit provided with a manual manipulator, position sensors for supplying position signals corresponding to the direction and quantity in which the manual manipulator is driven, actuators for providing an external force to the manual manipulator, and a control section for controlling the actuators, wherein the control section computes the movable range of the manual manipulator from its current position to an end of its possible motion according to changes in position signals supplied from the position sensors, and controls the output to the actuators according to the computed width of the movable range.

2. A vehicle-mounted input unit provided with a manual manipulator, position sensors for supplying position signals corresponding to the direction and quantity in which the manual manipulator is operated, actuators for providing an external force to the manual manipulator, and a control section for controlling the actuators, wherein the control section computes the magnitude of the working force applied to the manual manipulator according to changes in position signals supplied from the position sensors, and controls the output to the actuators according to the computed working force.

3. A vehicle-mounted input unit provided with a manual manipulator, position sensors for supplying position signals corresponding to the direction and quantity in which the manual manipulator is driven, actuators for providing an external

force to the manual manipulator, and a control section for controlling the actuators, wherein the control section computes the operating speed of the manual manipulator according to changes in position signals supplied from the position sensors, and controls the output to the actuators according to the computed level of the operating speed.

4. A vehicle-mounted input unit provided with a manual manipulator, position sensors for supplying position signals corresponding to the direction and quantity in which the manual manipulator is driven, actuators for providing an external force to the manual manipulator, and a control section for controlling the actuators, wherein the control section computes the operating acceleration of the manual manipulator according to changes in position signals supplied from the position sensors, and controls the output to the actuators according to the computed level of the operating acceleration.

5. A vehicle-mounted input unit provided with a manual manipulator, vehicle-mounted electric devices operated by the manual manipulator, position sensors for supplying position signals corresponding to the direction and quantity in which a pertinent vehicle-mounted electric device is driven, actuators for providing an external force to the manual manipulator, and a control section for controlling the vehicle-mounted electric devices and the actuators, wherein the control section computes the movable range of the vehicle-mounted electric device from its current position to an end of its possible motion according to changes in position signals

supplied from the position sensors, and controls the output to the actuators according to the computed width of the movable range.

6. The vehicle-mounted input unit according to Claim 1, wherein a plurality of tables listing correlations between changes in the position signals and the output of the actuators are stored in the control section, and a switching means for the tables is provided on or in the vicinity of the manual manipulator.

7. The vehicle-mounted input unit according to Claim 2, wherein a plurality of tables listing correlations between changes in the position signals and the output of the actuators are stored in the control section, and a switching means for the tables is provided on or in the vicinity of the manual manipulator.

8. The vehicle-mounted input unit according to Claim 3, wherein a plurality of tables listing correlations between changes in the position signals and the output of the actuators are stored in the control section, and a switching means for the tables is provided on or in the vicinity of the manual manipulator.

9. The vehicle-mounted input unit according to Claim 4, wherein a plurality of tables listing correlations between changes in the position signals and the output of the actuators are stored in the control section, and a switching means for the tables is provided on or in the vicinity of the manual manipulator.

10. The vehicle-mounted input unit according to Claim 5, wherein a plurality of tables listing correlations between changes in the position signals and the output of the actuators are stored in the control section, and a switching means for the tables is provided on or in the vicinity of the manual manipulator.